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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/621,769	07/17/2003	John Richard Boylan	06256P USA	1707	
23543	7590 10/02/2006		EXAMINER		
	DUCTS AND CHEMICA	SALVATORE, LYNDA			
PATENT DEPARTMENT 7201 HAMILTON BOULEVARD			ART UNIT	PAPER NUMBER	
ALLENTOWN, PA 181951501			1771		
			DATE MAILED: 10/02/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
Office Action Summary		10/621,769	BOYLAN, JOHN	RICHARD				
		Examiner	Art Unit					
		Lynda M. Salvato	re 1771					
	The MAILING DATE of this communi	cation appears on the cover	sheet with the correspondence a	nddress				
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,								
WHIC - Exter after - If NO - Failu Any r	CHEVER IS LONGER, FROM THE M sions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm period for reply is specified above, the maximum state to reply within the set or extended period for reply reply received by the Office later than three months a end patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF THIS CC of 37 CFR 1.136(a). In no event, howe unication. tutory period will apply and will expire swill, by statute, cause the application to	MMUNICATION. ver, may a reply be timely filed SIX (6) MONTHS from the mailing date of this become ABANDONED (35 U.S.C. § 133).					
Status								
1)[Responsive to communication(s) file	d on <u>10 July 2006</u> .						
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	4) Claim(s) 1-8 is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-8</u> is/are rejected.							
	Claim(s) is/are objected to.							
8)[Claim(s) are subject to restric	tion and/or election require	nent.					
Applicati	on Papers							
9)	The specification is objected to by the	Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
	Applicant may not request that any object	ction to the drawing(s) be held	in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	ınder 35 U.S.C. § 119							
12)	Acknowledgment is made of a claim	for foreign priority under 35	U.S.C. § 119(a)-(d) or (f).					
a)	☐ All b)☐ Some * c)☐ None of:							
	1. Certified copies of the priority	documents have been rece	ived.					
	2. Certified copies of the priority			,				
	3. Copies of the certified copies	· · ·		al Stage				
	application from the Internatio	·	• • •					
- 5	See the attached detailed Office actio	n for a list of the certified co	pies not received.					
Attachme-	t(c)							
Attachmen 1) Notice	ι(s) e of References Cited (PTO-892)	4) [Interview Summary (PTO-413)					
2) Notice	e of Draftsperson's Patent Drawing Review (P	TO-948)	Paper No(s)/Mail Date					
3) L Infon	mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	-	Notice of Informal Patent Application Other:					
	rademark Office	-/ -						

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DETAILED ACTION

Response to Amendment

1. Applicant's amendment and accompanying remarks filed 7/10/06 have been fully considered and entered. Claim 1 has been amended as requested. Applicant's amendment to claim 1 is found sufficient to overcome the 112 2nd paragraph rejection set forth in section 4 of the last Office Action. As such, this rejection is withdrawn. Applicant's arguments are found persuasive to overcome the obviousness rejection of claims 1-8 made over the GB specification in section 6 of the last Office Action. As such, this rejection is hereby withdrawn. However, upon further consideration the following new ground of rejection is set forth herein below.

Claim Rejections - 35 USC § 103

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being obvious over Sawyer et al., US 3,369,932 in view of Mao et al., EP 0 841 351 A2.

The patent issued to Sawyer et al., teach a wax-polymer emulsion blend suitable to film coat paper, cloth and fibers (column 1, 10-35 and column 5, example 1). Said blend is moisture-vapor resistant and exhibits unexpectedly improved toughness, flexibility, tensile strength, elongation and resistance to cracking at low temperatures (column 1, 25-30 and column 2, 50-65). With regard to claims 5 and 6, Sawyer et al., teach employing various waxes including paraffin wax in amounts ranging between 0 and 70wt.% (column 4, 35-45). The amount of polymer emulsion ranges from 5-50wt. % (column 4, 35-40).

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Sawyer et al., fail to teach the claimed polymer emulsion, however, the published EP document to Mao et al., teach an adhesive composition comprising the claimed polymer emulsion in the claimed amounts having the claimed glass transition temperature range (abstract, page 3, 54-60, page 4, 5-15). The adhesive composition exhibits properties such as the ability to form an excellent bond, balance of peel, cohesive strength, enhanced thermal and hydrolytic stability (page 3, 29-42). Said adhesive is used to fabricate paper labels and laminating polymeric films (page 2, 1-10).

With regard to claim 8, Mao et al., teach adding methacrylic acid (page 4, 45-47) but not ethylene acrylic acid, however, it is the position of the Examiner that absent unexpected results to the contrary, methylene and ethylene acrylic acid are considered interchangeable constituents since they are similar in chemistry and functionality.

The wax-polymer emulsion blend taught by the combination of prior art does not specifically teach the claimed hydrostatic head properties recited in claims 1 and 4, however, it is reasonable to presume wax-polymer emulsion blend provided by the combination of prior art would exhibit the claimed properties. Support for said presumption is found in the use of like materials such as the claimed wax emulsion and polymer emulsion constituents. Applicant is invited to evidence otherwise.

Therefore, motivated by the desire to provide a film with excellent bond, peel, cohesive strength and stability, it would have been obvious to one having ordinary skill in the art at the time the invention was made to formulate the wax-resin emulsion film coating composition taught by Sawyer et al., with the specific polymer emulsion composition disclosed in the EP document to Mao et al.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lynda M. Salvatore whose telephone number is 571-272-1482. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on 571-272-1478. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

September 25, 2006